

Rec'd 3/31/92
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Cruise Report
by
Juan Luis Trías

VESSEL:

R/V Jean A

DATES:

November 6-21, 1991

LOCATION:

South Coast of Puerto Rico, (Caja de Muertos to Salinas-Jobos area).

OBJECTIVE:

Aproximately 200 nautical miles of shallow seismic reflection data were collected in the nearshore waters of Caja de Muertos and Salinas-Jobos to study sub-bottom profiles. More than 200 surface samples have been analyzed for textural and chemical qualities and to delineate the boundaries of the sediment facies.

The results of this investigation will be published in the Marine Geologic Map of Caja de Muertos and the Marine Geologic Map of Salinas to Jobos area. The marine geologic maps will provide reconnaissance level information on bathymerty, geologic structure, surficial sediment characteristics and coastal processes.

These maps will be part of a geologic mapping program that covers the Puerto Rico insular shelf, that is being carried out by the U.S. Geological Survey in cooperation with the Puerto Rico Department of Natural Resources.

SCIENTIFIC PERSONNEL:

Juan Luis Trias- USGS: San Juan

Milton Carlo-USGS: San Juan

Ken Parolsky-USGS: Woods Hole

Elazar Uchupi-Woods Hole Oceanographic Institution: Woods Hole

CHIEF SCIENTISTS:

Juan Luis Trías and Elazar Uchupi

EQUIPMENT:

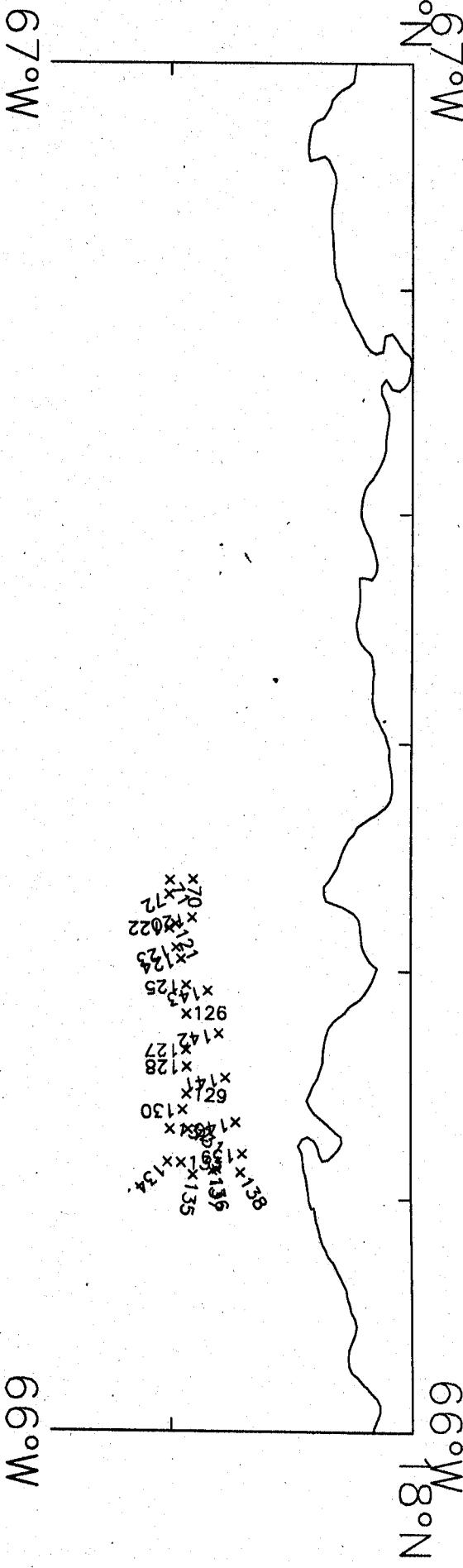
1. Seismic data was collected with a Uniboom system and a 3.5 KHz seismic system.
2. Navigation control was provided by a Miniranger system.
3. Surface sediment samples were collected with a

Shipek grab sampler.

PORt OF CALL:

Caja de Muertos area: Ponce Harbor (Nov 6 to Nov 12 1991).

Salinas to Jobos area: Aquirre Harbor (Nov 13 to Nov 21 1991).



TRIAS/
JENA 91-11
UCHUPI
JEAN A
PONCE-
SALTINAS-
JOBOS

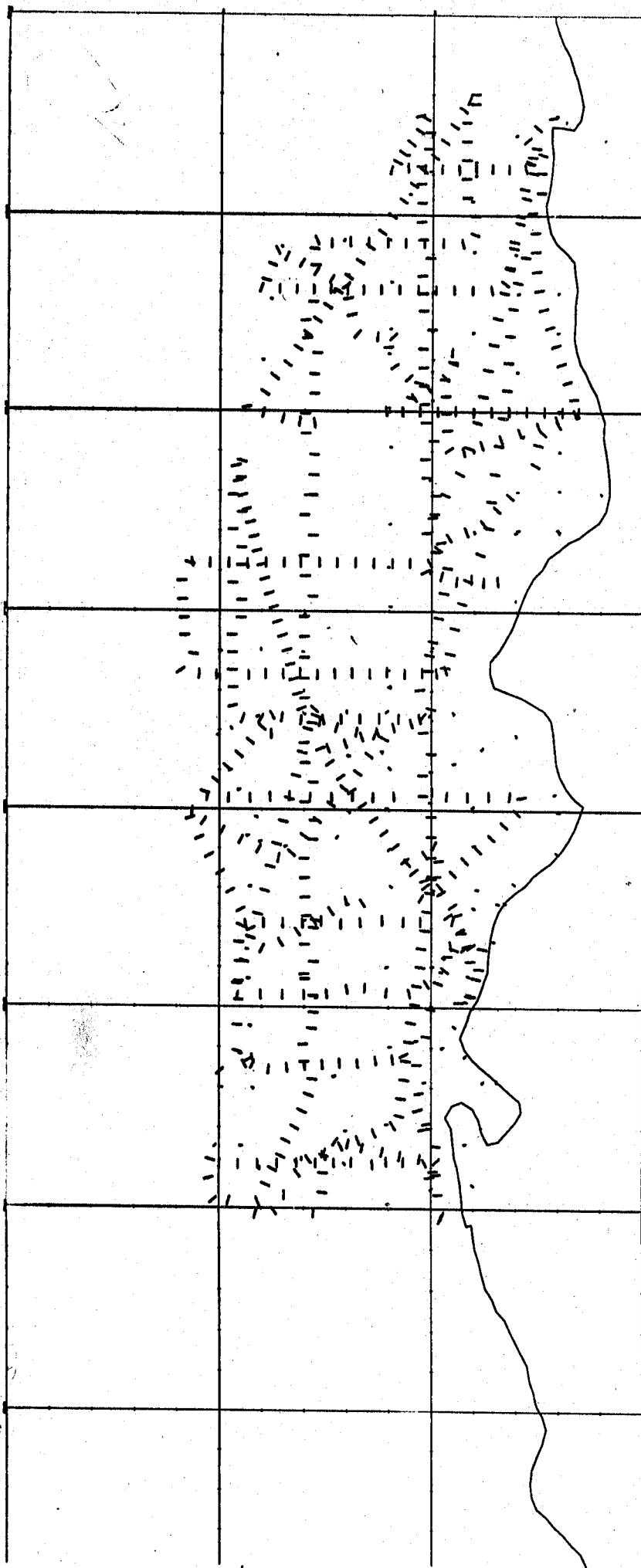
November 6-21, 1991

SAMPLING LOCATIONS
NOVEMBER 18, 1991

TRIAS/ JEAN A PONCE-
UCHUPI JENA 91-11 SALINAS-
JOBOS

November 6-21, 1990

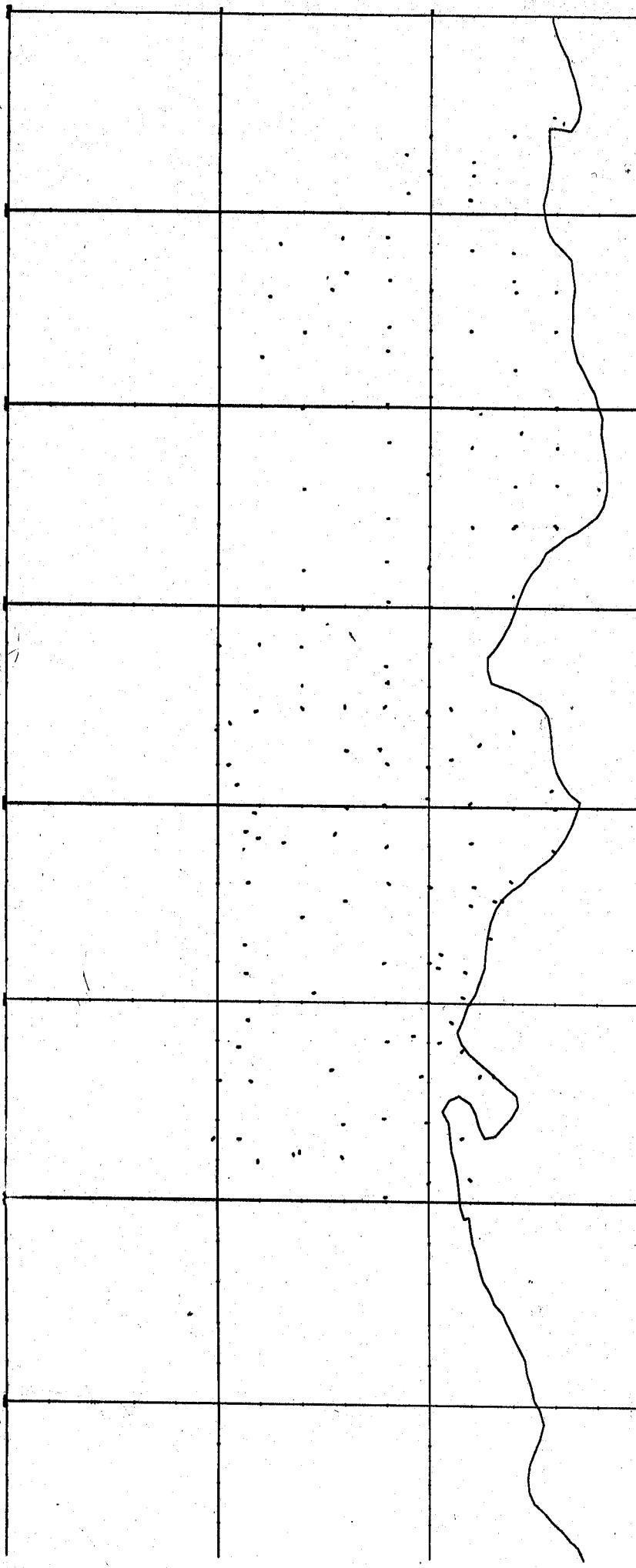
TRACKLINE CHART

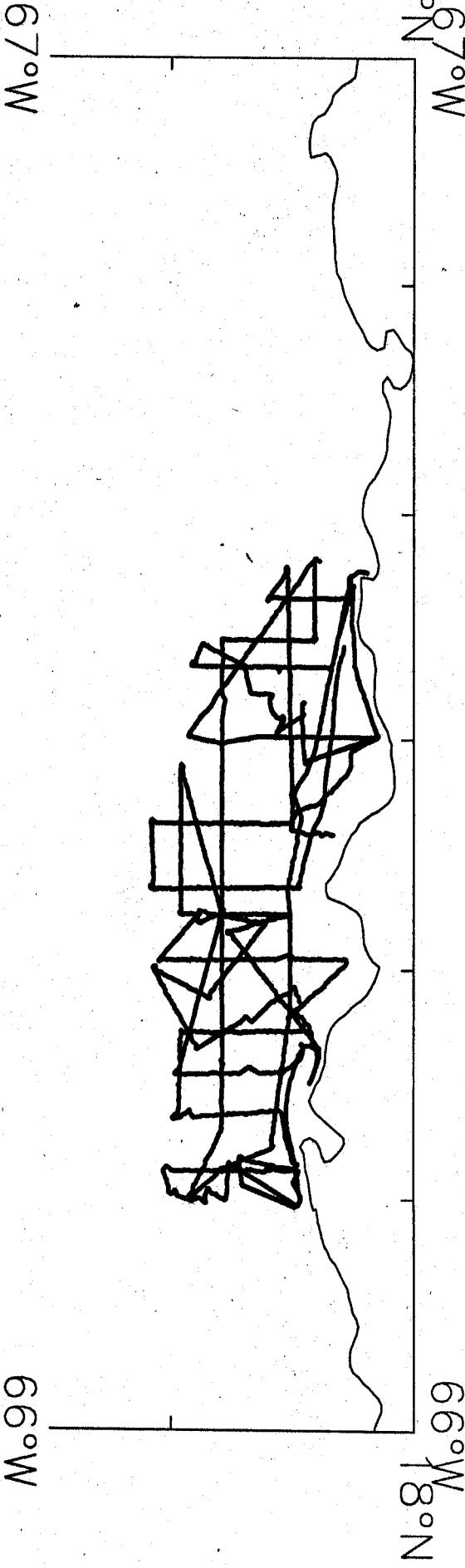


TRIAS/ JEA N A PONCE-
UCHUPI JENA 91-11 SALINAS-
JOBOS

November 6-21, 1990

SAMPLING LOCATIONS



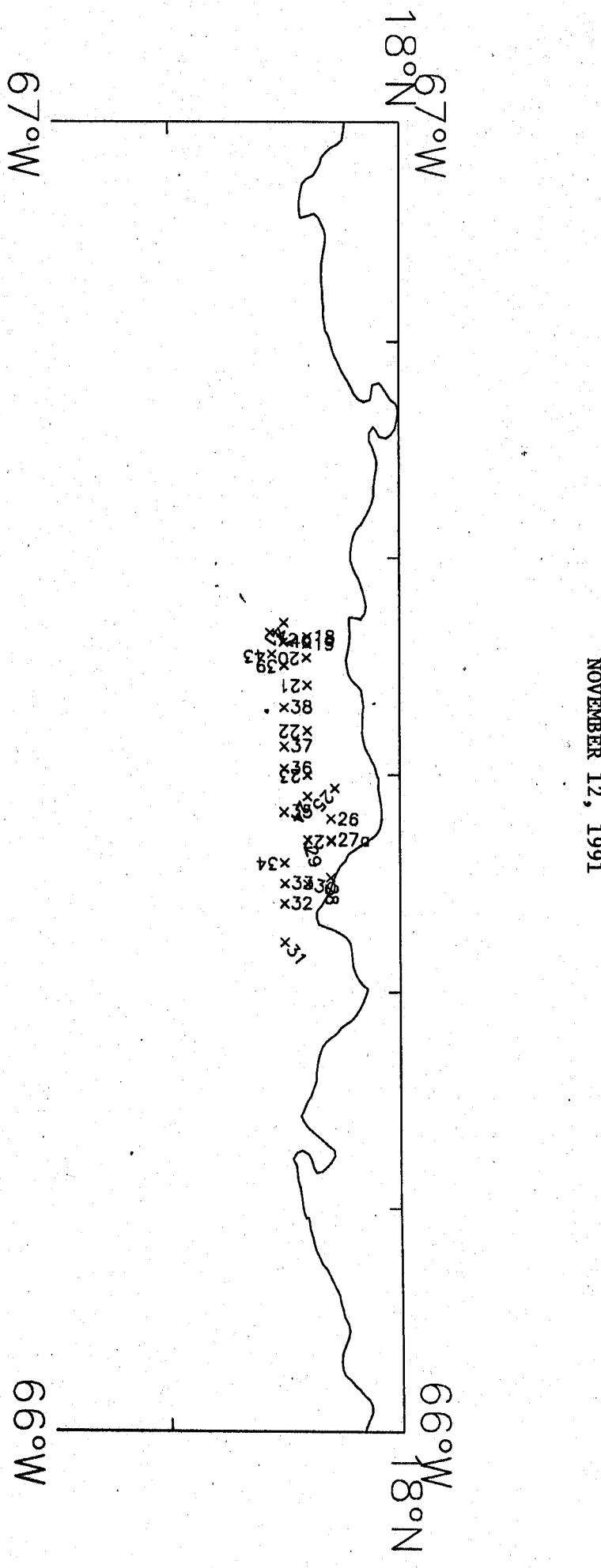


TRIAS/
JENA 91-11
UCHUPI
PONCE-
SALINAS-
JOBOS

November 6-21, 1991

TRACKLINE CHART FOR
SEISMIC SURVEY
NOV 7, 8, 9, 10, 15, 16, 17, 1991

11/07/8, 09/10, 15/16/17



TRIAS/
UCHUPI JEAN A PONCE-
JENA 91-11 SALINAS-

JEAN A PONCE-
JENA 91-11 SALINA

SAMPLING LOCATIONS
NOVEMBER 12, 1991

215

67°W

18°N

x50
x49 x62
x48 x9
x47 x44
x46 x43
x45 x42
x44 x41
x43 x40
x42 x39
x41 x38
x40 x37
x39 x36
x38 x35
x37 x34
x36 x33
x35 x32
x34 x31
x33 x30
x32 x29
x31 x28
x30 x27
x29 x26
x28 x25
x27 x24
x26 x23
x25 x22
x24 x21
x23 x20
x22 x19
x21 x18
x20 x17
x19 x16
x18 x15
x17 x14
x16 x13
x15 x12
x14 x11
x13 x10
x12 x9
x11 x8
x10 x7
x9 x6
x8 x5
x7 x4
x6 x3
x5 x2
x4 x1

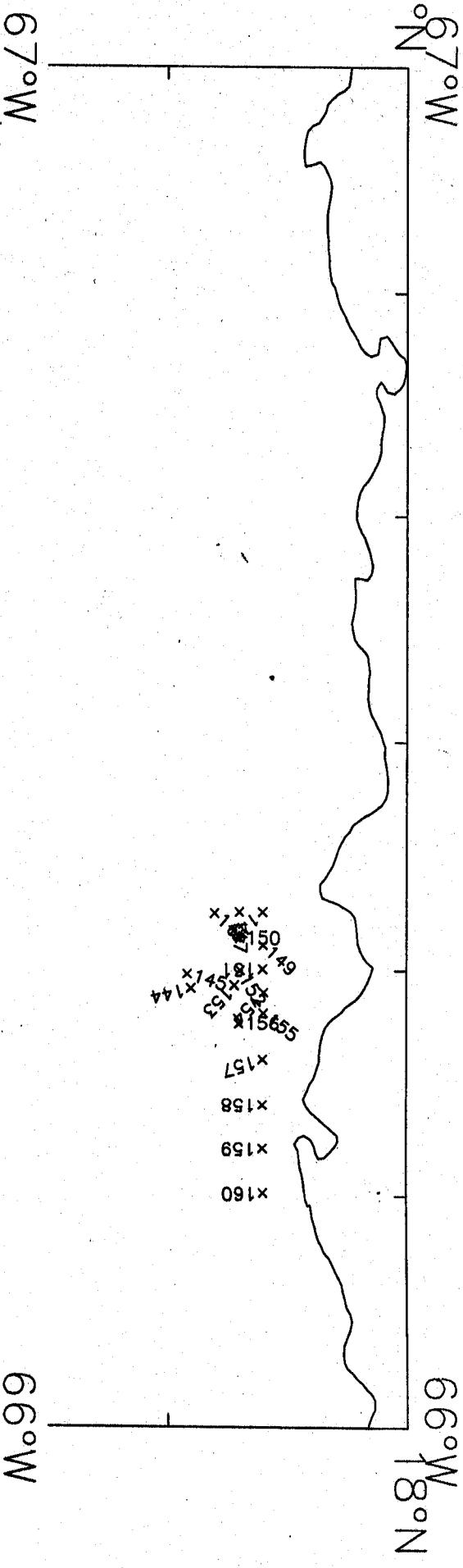
66°W

18°N

TRIAS/
UCHUPI JEAN A
 PONCE
 JENA 91-11
 SALINAS-
 JOBOS

November 6-21, 1991

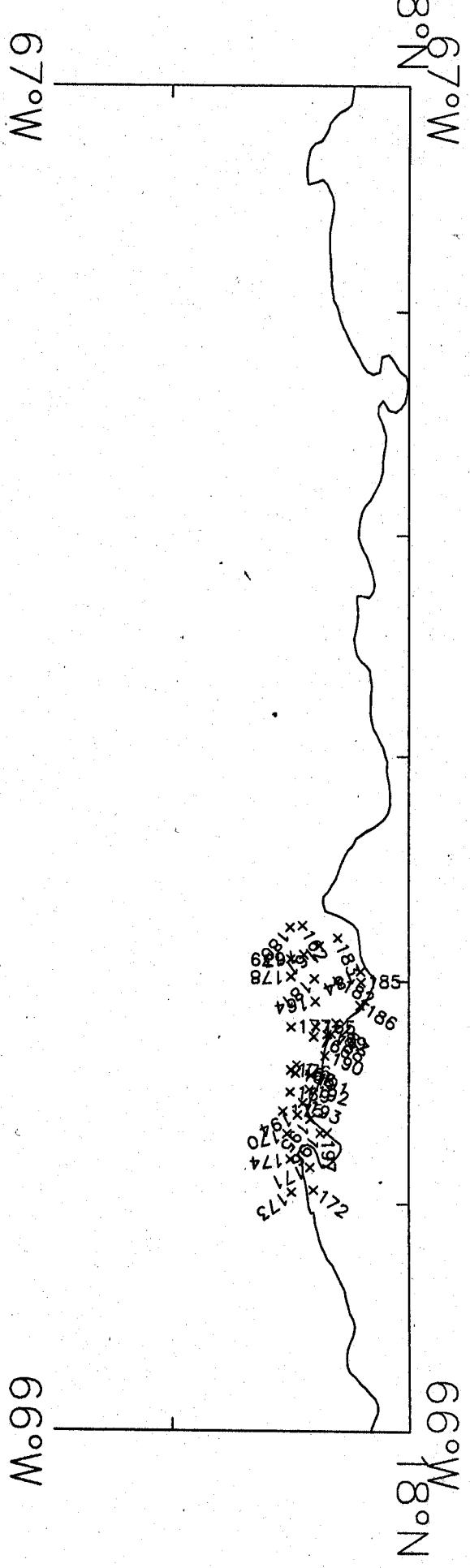
SAMPLING LOCATIONS
NOVEMBER 13, 1991



SAMPLING LOCATIONS
NOVEMBER 19, 1991

TRIAS/
UCHUPI JEAN A
 PONCE-
JENA 91-11 SALINAS-
JOBOS

November 6-21, 1991



TRIAS / JEAN A PONCE-
UCHUPI JENA 91-11 SALINAS -

JEAN A
JENA 91-11

SALIN

SAMPLING LOCATIONS
NOVEMBER 20, 1991

ALL LING. LOCATIONS
NOVEMBER 20, 1991

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